CONTENTS OF VOLUME 108

NUMBER 1

Articles

1 Long-Term Landscape Evolution of the Northparkes Region of the Lachlan Fold Belt, Australia: Constraints from Fission Track and Paleomagnetic Data
Paul B. O'Sullivan, David L. Gibson, Barry P. Kohn, Brad Pillans, and Colin F. Pain

17 Water Discharge and Sediment Load from the Western Slopes of the Colombian Andes with Focus on Rio San Juan
Juan D. Restrepo and Björn Kjerfve

35 Tephrochronologic Constraints on Temporal Distribution of Large Landslides in Northwest Argentina
Reginald L. Hermanns, Martin H. Trauth, Samuel Niedermann, Michael McWilliams, and Manfred R. Strecker

53 Orogenesis and Basin Development: U-Pb Detrital Zircon Age Constraints on Evolution of the Late Paleozoic St. Marys Basin, Central Mainland Nova Scotia
J. Brendan Murphy and Michael A. Hamilton

73 Supply and Removal of Sediment in a Landslide-Dominated Mountain Belt: Central Range, Taiwan
Niels Hovius, Colin P. Stark, Chu Hao-Tsu, and Lin Jiun-Chuan

91 Signatures of Divergence and Self-Organization in Soils and Weathering Profiles
Jonathan D. Phillips

103 An Internally Consistent Thermodynamic Model for the System CaO-MgO-Al_2O_3-SiO_2 Derived Primarily from Phase Equilibrium Data
Tibor Gasparik

Geological Notes

121 Substrate Influences on Step-Pool Sequences in the Christopher Creek Drainage, Arizona
Ellen E. Wohl

NUMBER 2

Articles

131 Associations of Vertebrate Skeletal Concentrations and Discontinuity Surfaces in Terrestrial and Shallow Marine Records: A Test in the Cretaceous of Montana
Raymond R. Rogers and Susan M. Kidwell

155 Evidence for Differential Unroofing in the Adirondack Mountains, New York State, Determined by Apatite Fission-Track Thermochronology
Mary K. Roden-Tice, Steven J. Tice, and Ian S. Schofield

171 Microbialite Morphostratigraphy as a Tool for Correlating Late Cambrian–Early Ordovician Sequences
Russell S. Shapiro and Stanley M. Awramik

181 Geochemistry of the Archean Kam Group, Yellowknife Greenstone Belt, Slave Province, Canada
Brian L. Cousens

199 Actualistic Ophiolite Provenance: The Cyprus Case
Eduardo Garzanti, Sergio Andò, and Maria Scutellà

219 Timing of the Acadian Orogeny in Northern New Hampshire
J. Dykstra Eusden, Jr., Chris A. Guzofski, Alexander C. Robinson, and Robert D. Tucker

Geological Note

233 Pb-Nd Isotopes Indicate the Origin of Island Arc Terranes in the Early Paleozoic Pacific
Carsten Münker

Discussion and Reply

243 Anomalously Low Temperature Orthopyroxene, Spinel, and Sapphirine Occurrences in Metasediments from the Bamble Amphibolite-to-Granulite Facies Transition Zone (South Norway): Possible Evidence for Localized Action of Saline Fluids: A Discussion
Per Hagelia

247 Anomalously Low Temperature Orthopyroxene, Spinel, and Sapphirine Occurrences in Metasediments from the Bamble Amphibolite-to-Granulite Facies Transition Zone (South Norway): Possible Evidence for Localized Action of Saline Fluids: A Reply
Timo G. Nijland, Jacques L. R. Touret, and Diederik Visser

251 *Review*

NUMBER 3

Articles

253 Turbidite Megabeds in an Oceanic Rift Valley Recording Jökulhlaups of Late Pleistocene Glacial Lakes of the Western United States
G. G. Zuffa, W. R. Normark, F. Serra, and C. A. Brunner

275 Stratigraphic Analysis of Upper Cretaceous Rocks in the Mahajanga Basin, Northwestern Madagascar: Implications for Ancient and Modern Faunas
Raymond R. Rogers, Joseph H. Hartman, and David W. Krause

303 Growth and Deformation of the Ladakh Batholith, Northwest Himalayas: Implications for Timing of Continental Collision and Origin of Calc-Alkaline Batholiths
Roberto F. Weinberg and W. J. Dunlap

321 Precise U-Pb Zircon Constraints on the Earliest Magmatic History of the Carolina Terrane
Greg L. Wortman, Scott D. Samson, and James P. Hibbard

339 Bulge Migration and Pinnacle Reef Development, Devonian Appalachian Foreland Basin
Charles A. Ver Straeten and Carlton E. Brett

Geological Note

353 Contrasting Metamorphic Record of Heat Production Anomalies in the Penokean Orogen of Northern Michigan
Kodjopa Attoh

NUMBER 4

Articles

363 U-Pb Geochronologic, Nd Isotopic, and Geochemical Evidence for the Correlation of the Chopawamsic and Milton Terranes, Piedmont Zone, Southern Appalachian Orogen
David G. Coler, Greg L. Wortman, Scott D. Samson, James P. Hibbard, and Richard Stern

381 Integrated Paleomagnetism and U-Pb Geochronology of Mafic Dikes of the Eastern Anabar Shield Region, Siberia: Implications for Mesoproterozoic Paleolatitude of Siberia and Comparison with Laurentia
R. E. Ernst, K. L. Buchan, M. A. Hamilton, A. V. Okrugin, and M. D. Tomshin

403 A New Late Middle Cambrian Paleomagnetic Pole for the Ellsworth Mountains, Antarctica
Darren E. Randall, Michael L. Curtis, and Ian L. Millar

427 Constraining the Late Mesozoic and Early Tertiary Tectonic Evolution of Southern Mexico: Structure and Deformation History of the Tierra Caliente Region
E. Cabral-Cano, G. Draper, H. R. Lang, and C. G. A Harrison

447 A Lost Realm in the Internal Domains of the Betic-Rif Orogen (Spain and Morocco): Evidence from Conglomerates and Consequences for Alpine Geodynamic Evolution
Agustín Martín-Algarra, Antonia Messina, Vincenzo Perrone, Selma Russo, Alì Maate, and Manuel Martín-Martín

469 The Kyonggi Shear Zone of the Central Korean Peninsula: Late Orogenic Imprint of the North and South China Collision
J.-N. Kim, J.-H. Ree, S.-T. Kwon, Y. Park, S.-J. Choi, and C.-S. Cheong

Geological Notes

479 Ultrahigh-Temperature Metamorphism in Madurai Granulites, Southern India: Evidence from Carbon Isotope Thermometry
M. Satish-Kumar

487 Major Element, REE, and Other Trace Element Behavior in Amphibolite Weathering under Semiarid Conditions in Southern India
Anupam Sharma and V. Rajamani

497 *Review*

NUMBER 5

Articles

499 Laurentia-Kalahari Collision and the Assembly of Rodinia
Ian W. D. Dalziel, Sharon Mosher, and Lisa M. Gahagan

515 Tracing Crustal Evolution in the Southern Central Andes from Late Precambrian to Permian with Geochemical and Nd and Pb Isotope Data
B. Bock, H. Bahlburg, G. Wörner, and U. Zimmermann

537 Early Mesozoic (?Triassic) Landscapes in Australia: Evidence, Argument, and Implications
C. R. Twidale

553 Diagenesis of the Purington Shale in the Illinois Basin and Implications for the Diagenetic State of Sedimentary Rocks of Shallow Paleozoic Basins
Duane M. Moore

569 Sm-Nd Geochemistry and U-Pb Geochronology of the Mont Rigaud Stock, Quebec, Canada: A Late Magmatic Event Associated with the Formation of the Iapetus Rift
Eric Malka, Ross K. Stevenson, and Jean David

585 Testing the Applicability of Strontium Isotope Stratigraphy in Marine to Deltaic Pleistocene Deposits: An Example from the Lamone River Valley (Northern Italy)
Stefano Claudio Vaiani

601 Pseudotachylyte (Frictionite) at the Base of the Arequipa Volcanic Landslide Deposit (Peru): Implications for Emplacement Mechanisms
François Legros, Jean-Marie Cantagrel, and Bertrand Devouard

Geological Note

613 Unusual Secondary Ca-Mg-Carbonate-Kerolite Deposits in Basaltic Caves, Kauai, Hawaii
Richard J. Léveillé, William S. Fyfe, and Fred J. Longstaffe

NUMBER 6

Articles

623 Definition of Late Cretaceous Stage Boundaries in Antarctica Using Strontium Isotope Stratigraphy
J. M. McArthur, J. A. Crame, and M. F. Thirlwall

641 A Complex History for the Caribbean Plateau: Petrology, Geochemistry, and Geochronology of the Beata Ridge, South Hispaniola
S. Révillon, E. Hallot, N. T. Arndt, C. Chauvel, and R. A. Duncan

663 Pb, Nd, and Sr Isotopes and REE Systematics of Cambrian Sediments from New Zealand: Implications for the Reconstruction of the Early Paleozoic Gondwana Margin along Australia and Antarctica
Frank Wombacher and Carsten Münker

687 A Reappraisal of the Pressure-Temperature Path of Granulites from the Kerala Khondalite Belt, Southern India
V. Nandakumar and S. L. Harley

705 Contribution to the Theory of Scarpland Development from Observations in Central Queensland, Australia
R. W. Young and R. A. L. Wray

Geological Notes

721 Subvolcanic and Deep-Crustal Tonalite Genesis beneath the Mexican Peninsular Ranges
Marcus C. Tate and Scott E. Johnson

729 Early Proterozoic Granulites in Central Korea: Tectonic Correlation with Chinese Cratons
Seung Ryeol Lee, Moonsup Cho, Keewook Yi, and Richard A. Stern

Discussion and Reply

739 Trace Element and Isotope Characteristics of Cenozoic Basalts around the Tanlu Fault with Implications for the Eastern Plate Boundary between North and South China: An Extended Discussion
K. J. Zhang

743 Trace Element and Isotope Characteristics of Cenozoic Basalts around the Tanlu Fault with Implications for the Eastern Plate Boundary between North and South China: A Reply
Sun-Lin Chung and Zheng-Xiang Li

749 Long-Term Landscape Evolution of the Northparkes Region of the Lachlan Fold Belt, Australia: Constraints from Fission Track and Paleomagnetic Data: A Discussion
Graham Taylor

750 Long-Term Landscape Evolution of the Northparkes Region of the Lachlan Fold Belt, Australia: Constraints from Fission Track and Paleomagnetic Data: A Reply
Paul B. O'Sullivan, Brad Pillans, David L. Gibson, Barry P. Kohn, and Colin F. Pain

753 *Index to Volume 108*

757 *Contents of Volume 108*